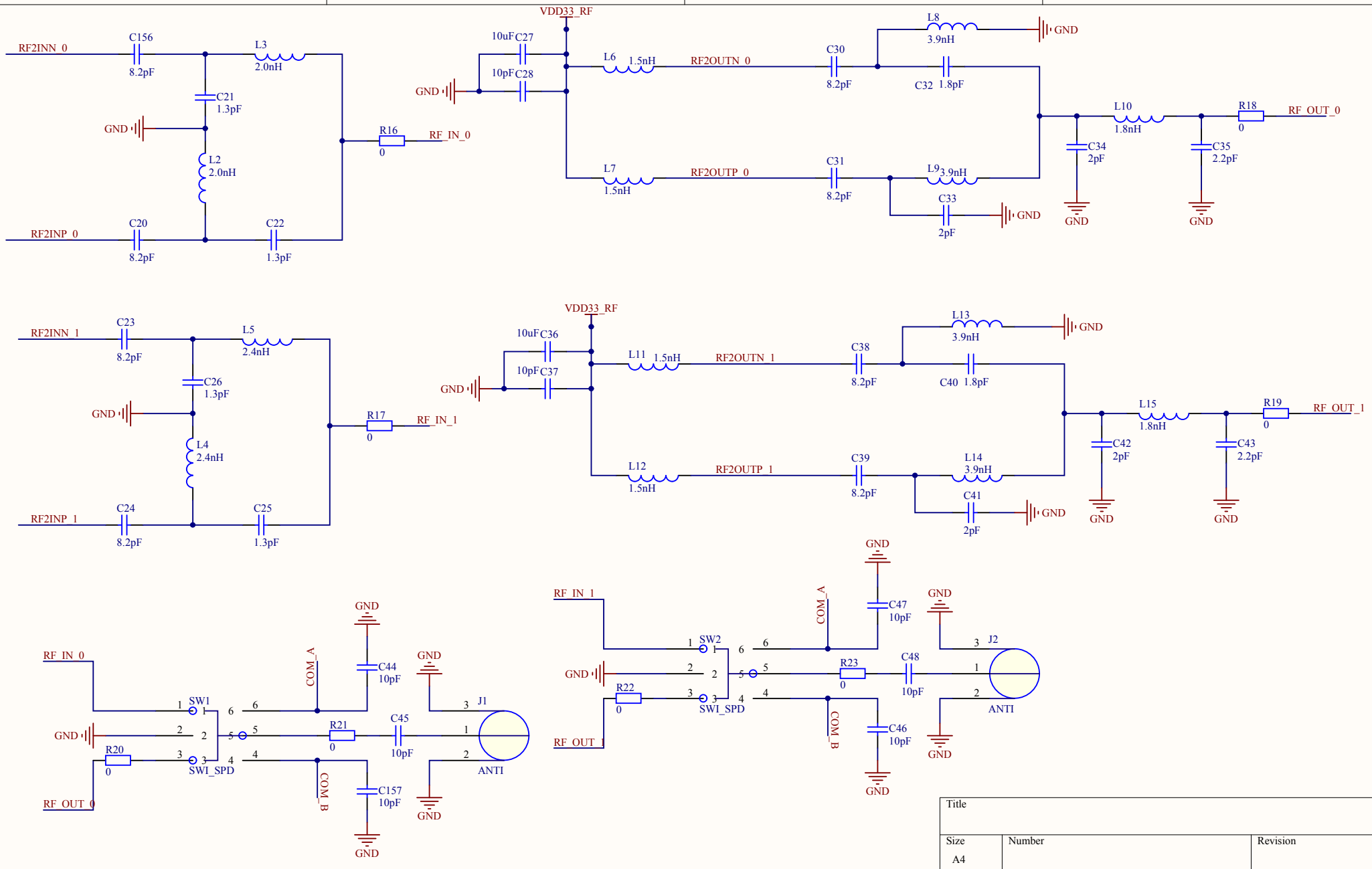
RF2INN_0
C156
8.2pF
L3
2.0nH
C21
1.3pF
GND
L2
2.0nH
RF2INP_0
C20
8.2pF
C22
1.3pF
R16
0
RF_IN_0
VDD33_RF
10uF C27
10pF C28
GND
L6 1.5nH
RF2OUTN_0
L7
1.5nH
RF2OUTP_0
C30
8.2pF
C31
8.2pF
L8
3.9nH
GND
C32 1.8pF
L9 3.9nH
C33
2pF
GND
L10
1.8nH
R18
0
RF_OUT_0
C34
2pF
C35
2.2pF
GND
GND
RF2INN_1
C23
8.2pF
L5
2.4nH
C26
1.3pF
GND
L4
2.4nH
RF2INP_1
C24
8.2pF
C25
1.3pF
R17
0
RF_IN_1
VDD33_RF
10uF C36
10pF C37
GND
L11 1.5nH
RF2OUTN_1
L12
1.5nH
RF2OUTP_1
C38
8.2pF
C39
8.2pF
L13
3.9nH
GND
C40 1.8pF
L14
3.9nH
C41
2pF
GND
L15
1.8nH
R19
0
RF_OUT_1
C42
2pF
C43
2.2pF
GND
GND
RF_IN_0
SW1
GND
R20
0
RF_OUT_0
SWI_SPD
COM_A
C44
10pF
GND
R21
0
C45
10pF
J1
ANTI
COM_B
C157
10pF
GND
GND
RF_IN_1
SW2
GND
R22
0
RF_OUT_1
SWI_SPD
COM_A
C47
10pF
GND
R23
0
C48
10pF
J2
ANTI
COM_B
C46
10pF
GND
GND
GND
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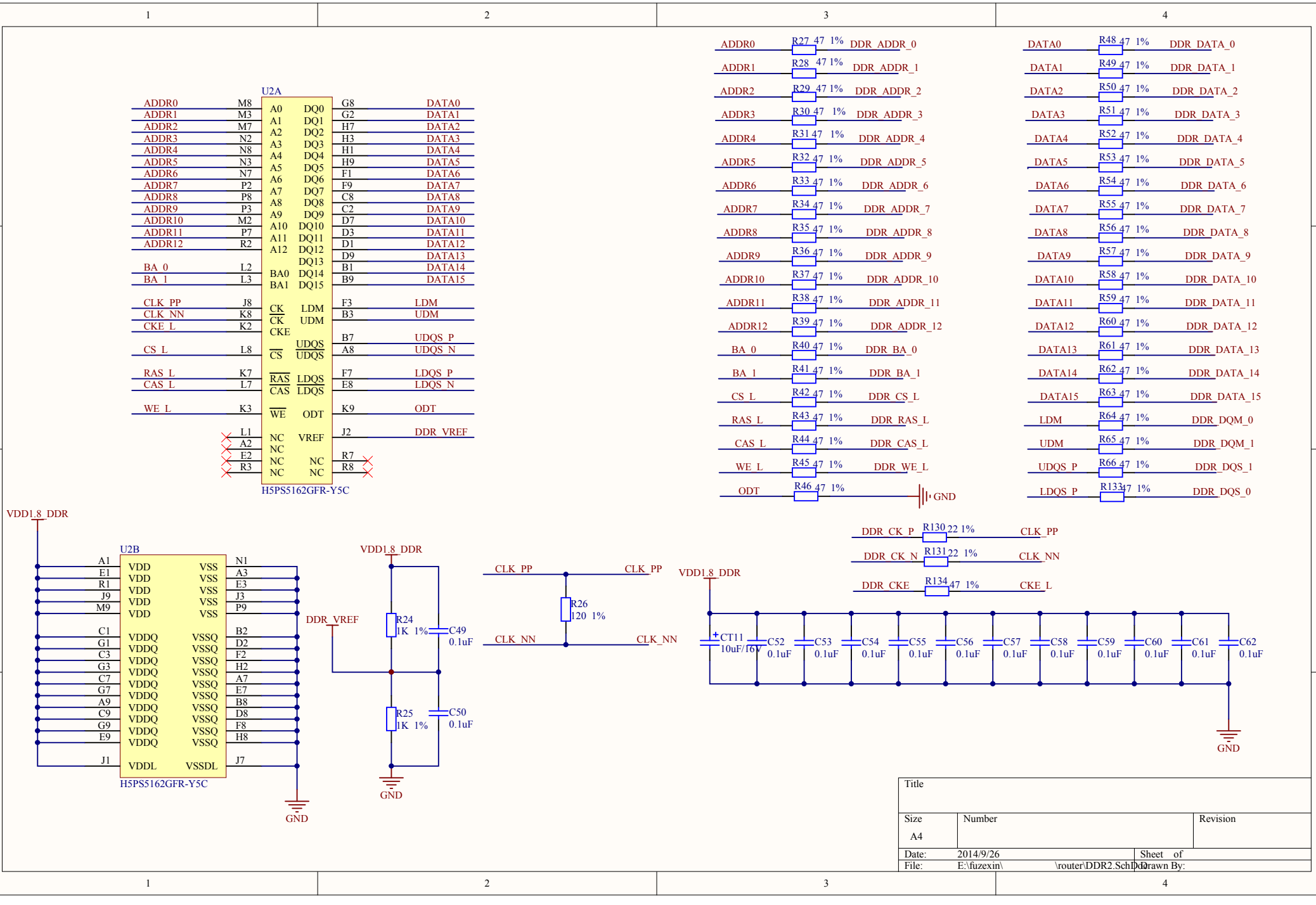
U2A
ADDR0 M8 A0 DQ0 G8 DATA0
ADDR1 M3 A1 DQ1 G2 DATA1
ADDR2 M7 A2 DQ2 H7 DATA2
ADDR3 N2 A3 DQ3 H3 DATA3
ADDR4 N8 A4 DQ4 H1 DATA4
ADDR5 N3 A5 DQ5 H9 DATA5
ADDR6 N7 A6 DQ6 F1 DATA6
ADDR7 P2 A7 DQ7 F9 DATA7
ADDR8 P8 A8 DQ8 C8 DATA8
ADDR9 P3 A9 DQ9 C2 DATA9
ADDR10 M2 A10 DQ10 D7 DATA10
ADDR11 P7 A11 DQ11 D3 DATA11
ADDR12 R2 A12 DQ12 D1 DATA12
DQ13 D9 DATA13
BA_0 L2 BA0 DQ14 B1 DATA14
BA_1 L3 BA1 DQ15 B9 DATA15
CLK_PP J8 CK LDM F3 LDM
CLK_NN K8 CK UDM B3 UDM
CKE_L K2 CKE
B7 UDQS_P
CS_L L8 CS UDQS A8 UDQS_N
RAS_L K7 RAS LDQS F7 LDQS_P
CAS_L L7 CAS LDQS E8 LDQS_N
WE_L K3 WE ODT K9 ODT
L1 NC VREF J2 DDR_VREF
A2 NC
E2 NC NC R7
R3 NC NC R8
H5PS5162GFR-Y5C
ADDR0 R27 47 1% DDR_ADDR_0
ADDR1 R28 47 1% DDR_ADDR_1
ADDR2 R29 47 1% DDR_ADDR_2
ADDR3 R30 47 1% DDR_ADDR_3
ADDR4 R31 47 1% DDR_ADDR_4
ADDR5 R32 47 1% DDR_ADDR_5
ADDR6 R33 47 1% DDR_ADDR_6
ADDR7 R34 47 1% DDR_ADDR_7
ADDR8 R35 47 1% DDR_ADDR_8
ADDR9 R36 47 1% DDR_ADDR_9
ADDR10 R37 47 1% DDR_ADDR_10
ADDR11 R38 47 1% DDR_ADDR_11
ADDR12 R39 47 1% DDR_ADDR_12
BA_0 R40 47 1% DDR_BA_0
BA_1 R41 47 1% DDR_BA_1
CS_L R42 47 1% DDR_CS_L
RAS_L R43 47 1% DDR_RAS_L
CAS_L R44 47 1% DDR_CAS_L
WE_L R45 47 1% DDR_WE_L
ODT R46 47 1%
GND
DATA0 R48 47 1% DDR_DATA_0
DATA1 R49 47 1% DDR_DATA_1
DATA2 R50 47 1% DDR_DATA_2
DATA3 R51 47 1% DDR_DATA_3
DATA4 R52 47 1% DDR_DATA_4
DATA5 R53 47 1% DDR_DATA_5
DATA6 R54 47 1% DDR_DATA_6
DATA7 R55 47 1% DDR_DATA_7
DATA8 R56 47 1% DDR_DATA_8
DATA9 R57 47 1% DDR_DATA_9
DATA10 R58 47 1% DDR_DATA_10
DATA11 R59 47 1% DDR_DATA_11
DATA12 R60 47 1% DDR_DATA_12
DATA13 R61 47 1% DDR_DATA_13
DATA14 R62 47 1% DDR_DATA_14
DATA15 R63 47 1% DDR_DATA_15
LDM R64 47 1% DDR_DQM_0
UDM R65 47 1% DDR_DQM_1
UDQS_P R66 47 1% DDR_DQS_1
LDQS_P R133 47 1% DDR_DQS_0
VDD1.8_DDR
U2B
A1 VDD VSS N1
E1 VDD VSS A3
R1 VDD VSS E3
J9 VDD VSS J3
M9 VDD VSS P9
C1 VDDQ VSSQ B2
G1 VDDQ VSSQ D2
C3 VDDQ VSSQ F2
G3 VDDQ VSSQ H2
C7 VDDQ VSSQ A7
G7 VDDQ VSSQ E7
A9 VDDQ VSSQ B8
C9 VDDQ VSSQ D8
G9 VDDQ VSSQ F8
E9 VDDQ VSSQ H8
J1 VDDL VSSDL J7
H5PS5162GFR-Y5C
GND
DDR_VREF
VDD1.8_DDR
R24 1K 1%
C49 0.1uF
R25 1K 1%
C50 0.1uF
GND
CLK_PP
CLK_PP
R26 120 1%
CLK_NN
CLK_NN
DDR_CK_P R130 22 1% CLK_PP
DDR_CK_N R131 22 1% CLK_NN
DDR_CKE R134 47 1% CKE_L
VDD1.8_DDR
CT11 10uF/16V
C52 0.1uF
C53 0.1uF
C54 0.1uF
C55 0.1uF
C56 0.1uF
C57 0.1uF
C58 0.1uF
C59 0.1uF
C60 0.1uF
C61 0.1uF
C62 0.1uF
GND
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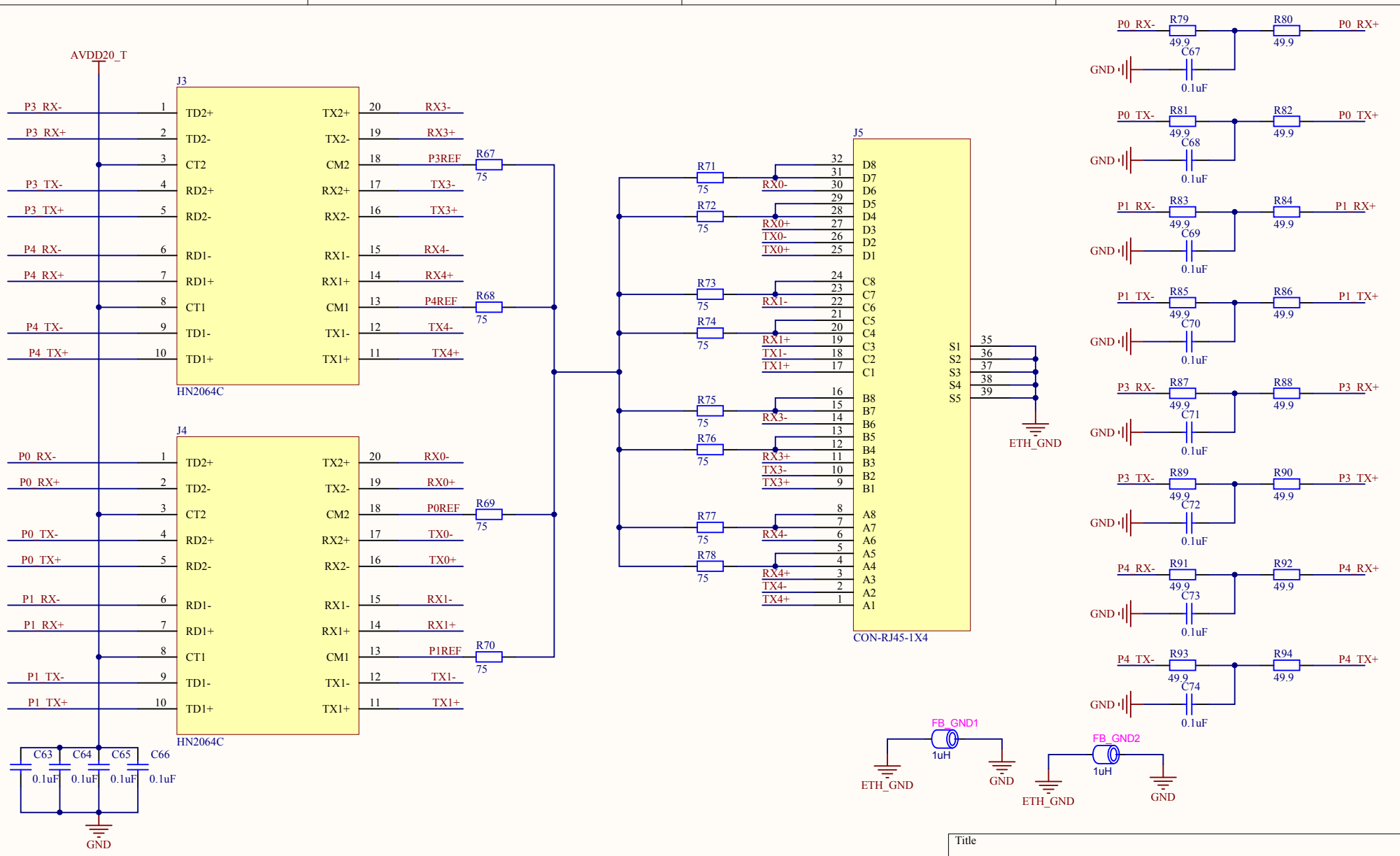

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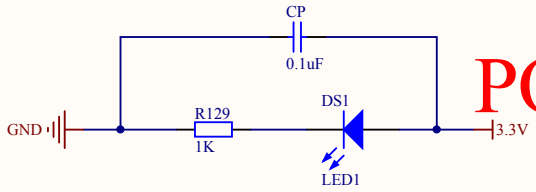
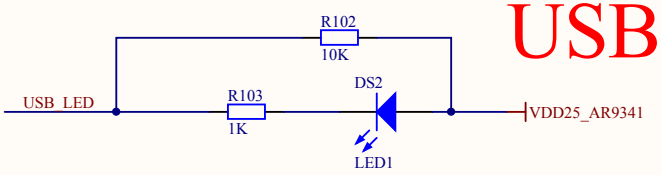
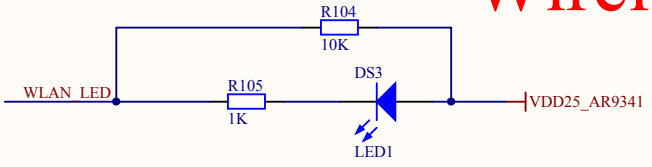
POWER

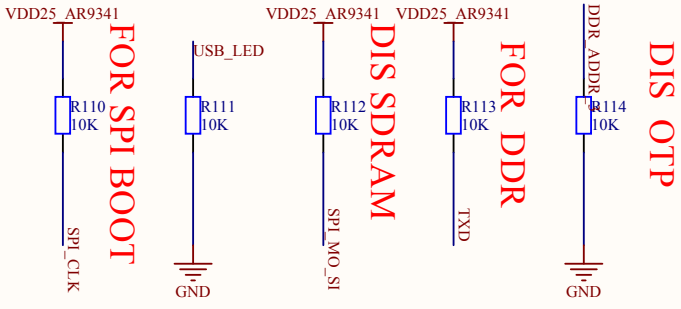


USB

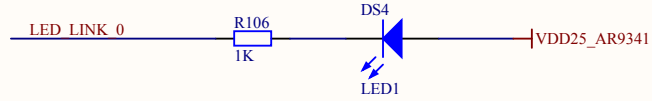


Wireless LAN LED

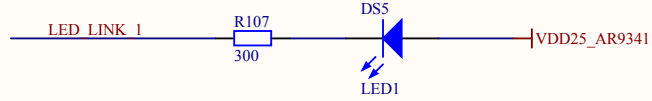




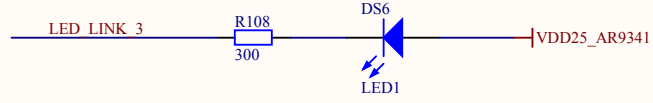
PORT0_LNK_ACT_LED



PORT1_LNK_ACT_LED



PORT3_LNK_ACT_LED



PORT4_LNK_ACT_LED

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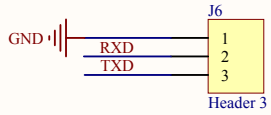

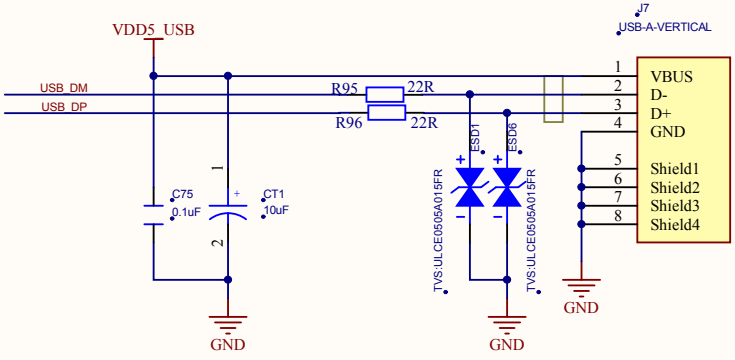

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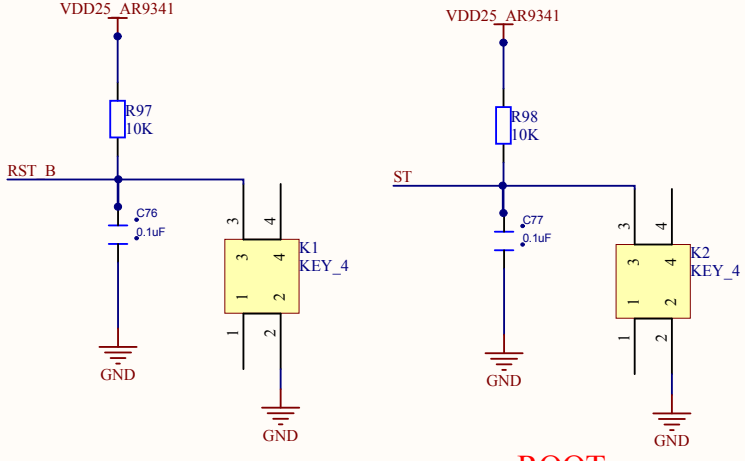
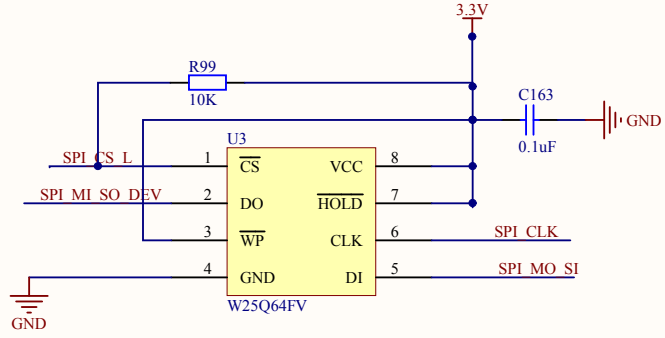
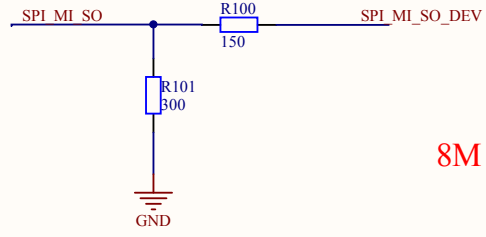


ROOT





8M SPI Flash

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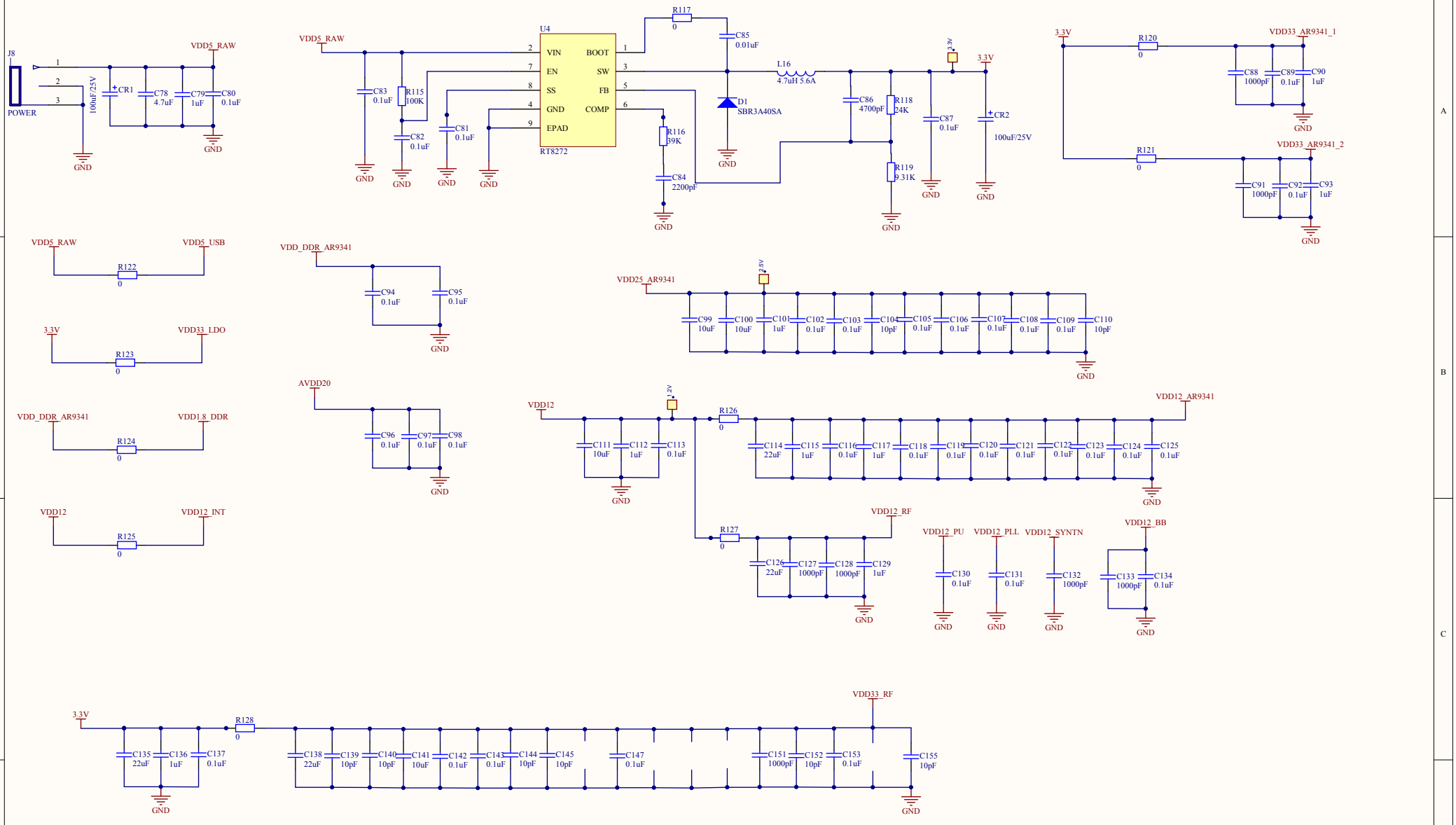

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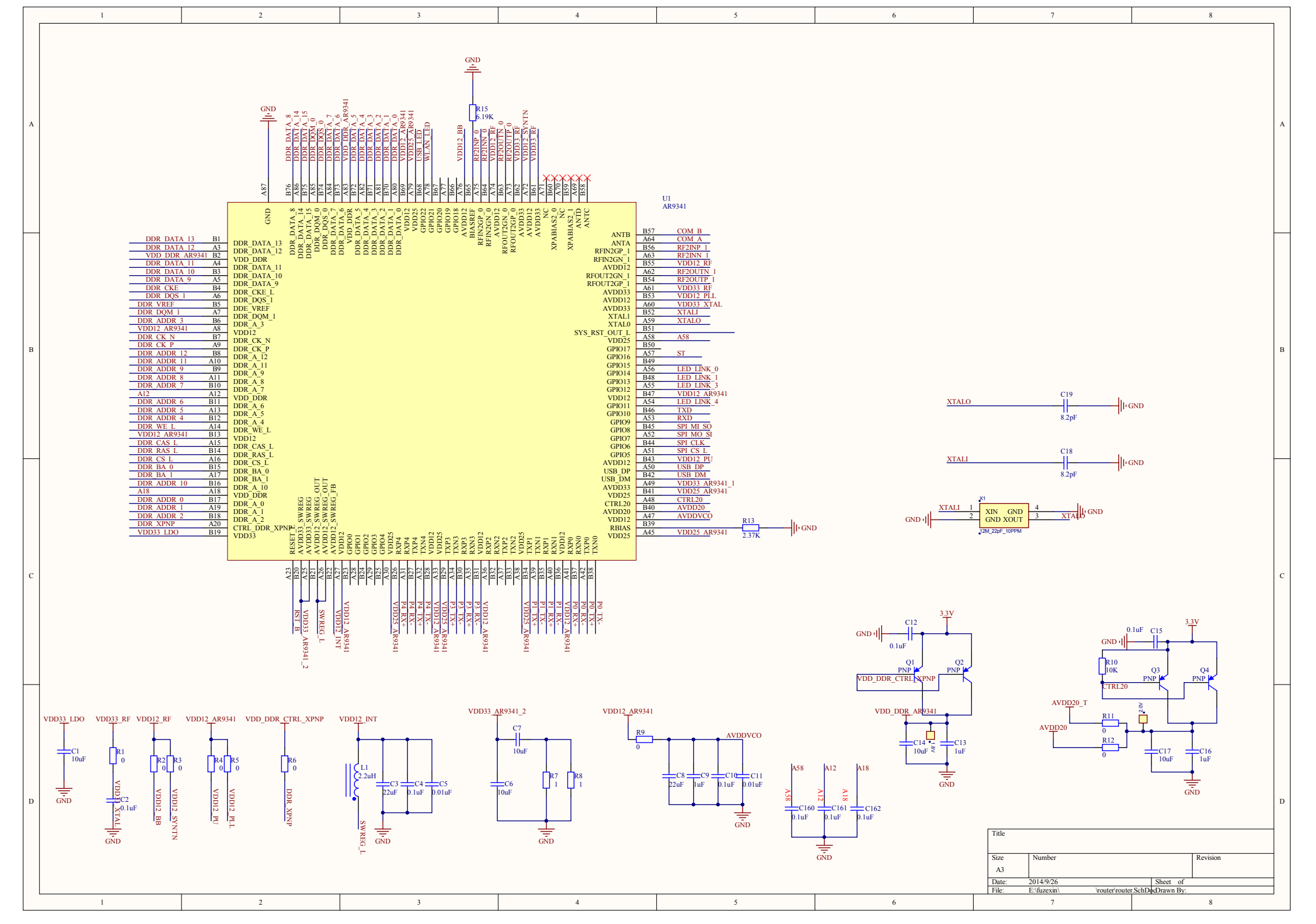
U1
AR9341
GND
R15
6.19K
R13
2.37K
C19
8.2pF
C18
8.2pF
XTALO
XTALI
X1
XIN GND
GND XOUT
12M_22pF_10PPM
C12
0.1uF
3.3V
Q1
PNP
Q2
PNP
VDD_DDR_CTRL_XPNP
VDD_DDR_AR9341
C14
10uF
C13
1uF
C15
0.1uF
R10
10K
Q3
PNP
Q4
PNP
CTRL20
AVDD20_T
AVDD20
R11
0
R12
0
C17
10uF
C16
1uF
VDD33_LDO
C1
10uF
VDD33_RF
R1
0
C2
0.1uF
VDD12_RF
R2
0
R3
0
VDD12_AR9341
R4
0
R5
0
VDD_DDR_CTRL_XPNP
R6
0
VDD12_INT
L1
2.2uH
C3
22uF
C4
0.1uF
C5
0.01uF
VDD33_AR9341_2
C7
10uF
C6
10uF
R7
1
R8
1
VDD12_AR9341
R9
0
AVDDVCO
C8
22uF
C9
1uF
C10
0.1uF
C11
0.01uF
C160
0.1uF
C161
0.1uF
C162
0.1uF
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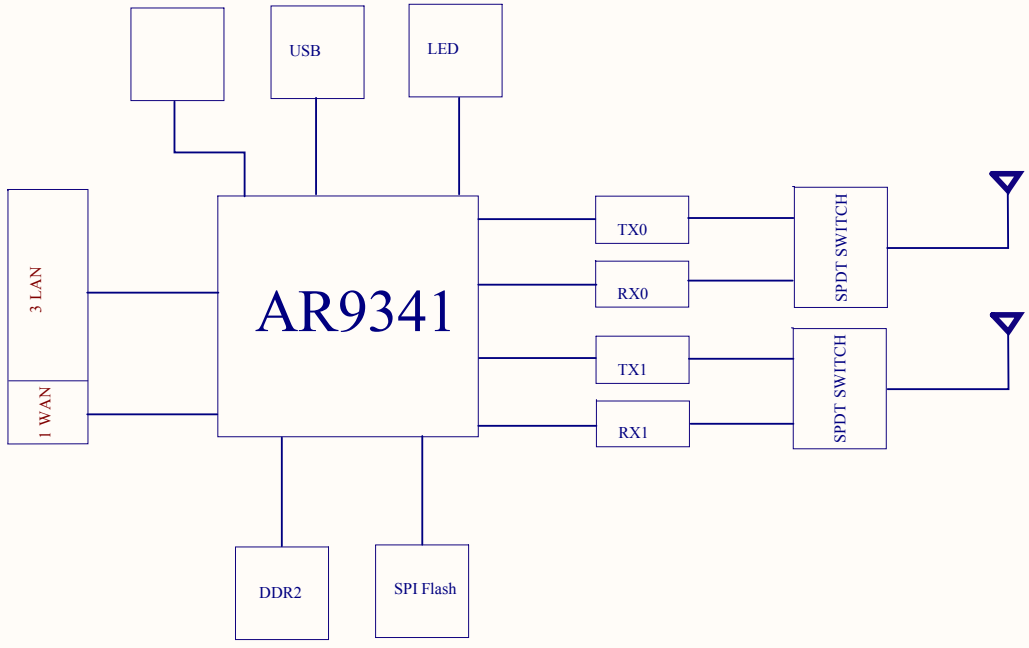

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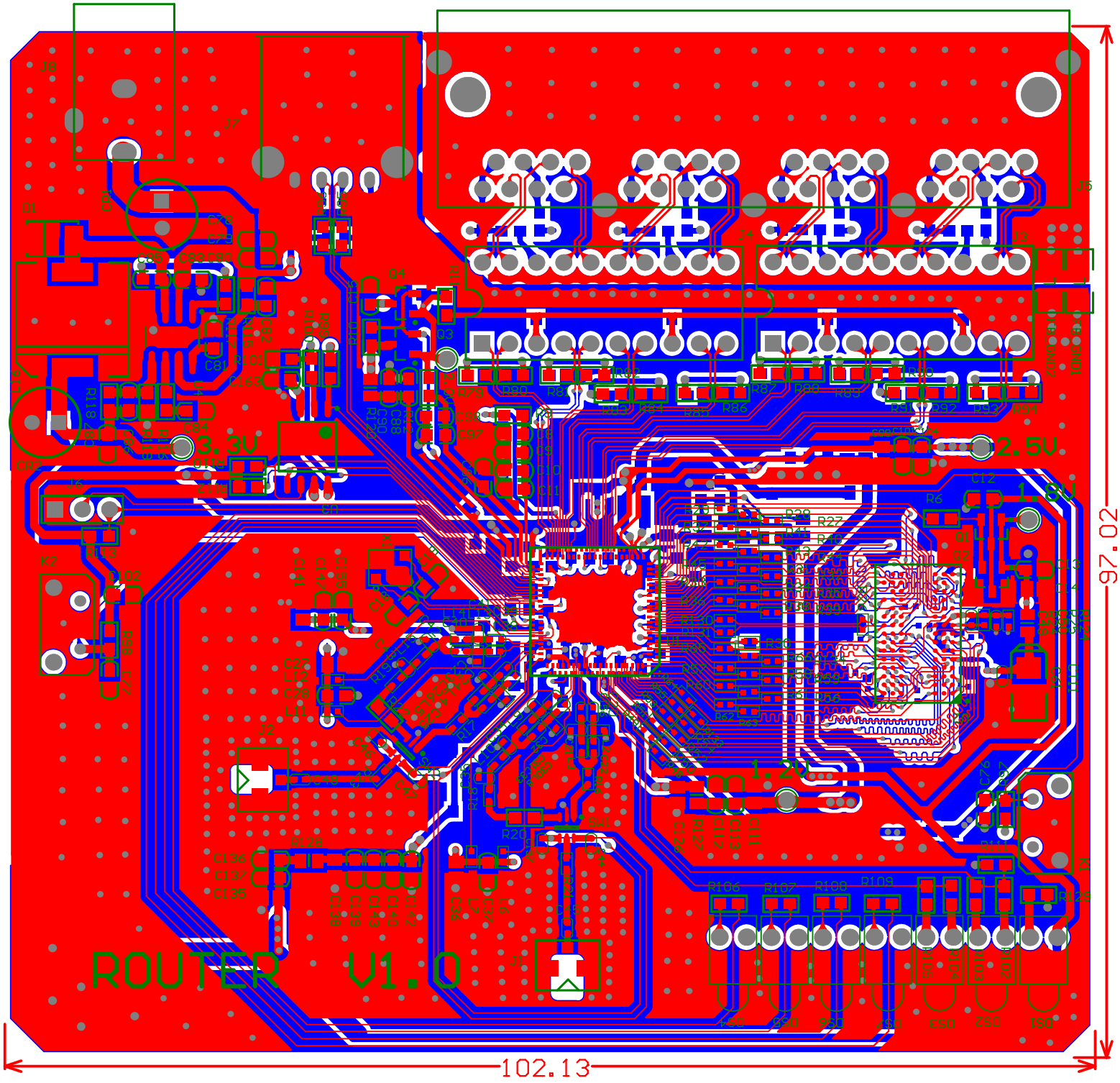
ROUTER V1.0
3.3V
2.5V
1.2V
97.02
102.13

Comment	Description	Designator	Footprint	LibRef	Quantity
1.2V		1.2V	TP-2	T POINT S	1
1.8V		1.8V	TP-2	T POINT S	1
2.0V		2.0V	TP-2	T POINT S	1
2.5V		2.5V	TP-2	T POINT S	1
3.3V		3.3V	TP-2	T POINT S	1
10uF	0.1uF	C1	C/0603/SMT （锡膏）	Cap	1
0.1uF	0.1uF, C_105,10V,0603,XSR,1 uF	C2, C4, C10, C12, C15, C63, C64, C65, C66, C67, C68, C69, C70, C71, C72, C73, C74, C76, C77, C80, C81, C82, C83, C87, C89, C94, C95, C96, C97, C98, C102, C103, C105, C106, C107, C108, C109, C113, C116, C118, C119, C120, C121, C122, C123, C124, C125, C130, C131, C134, C137, C142, C143, C147, C153, C160, C161, C162, C163, C8,	C/0603/SMT （锡膏）	C_1uF, Cap, CAPACITOR_2	60
22uF	0.1uF, C_105,10V,0603,XSR,1 uF	C3, C114, C126, C135, C138	C0805	C_1uF, Cap	5
0.01uF	0.1uF, C_105,10V,0603,XSR,1 uF	C5, C11, C85	C/0603/SMT （锡膏）	C_1uF, Cap	3
10uF	0.1uF, C_105,10V,0603,XSR,1 uF	C6, C7, C14, C17, C27, C36, C99, C100, C111, C141	C0805	C_1uF, Cap	10
22uF	0.1uF	C8	C/0603/SMT （锡膏）	Cap	1
1uF	0.1uF, C_105,10V,0603,XSR,1 uF	C9, C13, C16, C79, C90, C93, C101, C112, C115, C117,	C/0603/SMT （锡膏）	C_1uF, Cap	12
8.2pF	0.1uF	C18, C19	C/0603/SMT （锡膏）	Cap	2
8.2pF	0.1uF	C20, C23, C24, C30, C31, C38, C39, C156	C0402	Cap	8
1.3pF	0.1uF	C21, C22, C25, C26	C0402	Cap	4
10pF	0.1uF, C_105,10V,0603,XSR,1 uF	C28, C37, C104, C110, C139, C140, C144, C145, C152,	C/0603/SMT （锡膏）	C_1uF, Cap	10
1.8pF	0.1uF	C32, C40	C0402	Cap	2
2pF	0.1uF	C33, C34, C41, C42	C0402	Cap	4
2.2pF	0.1uF	C35, C43	C0402	Cap	2
10pF	0.1uF	C44, C45, C46, C47, C48, C157	C0402	Cap	6
0.1uF	0.1uF	C49, C50, C52, C53, C54, C55, C56, C57, C58, C59, C60, C61, C62, C75	C0402	Cap, CAPACITOR_2	14
4.7uF	C_105,10V,0603,XSR,1 uF	C78	C0805	C_1uF	1
2200pF	C_105,10V,0603,XSR,1 uF	C84	C/0603/SMT （锡膏）	C_1uF	1
4700pF	C_105,10V,0603,XSR,1 uF	C86	C/0603/SMT （锡膏）	C_1uF	1
1000pF	C_105,10V,0603,XSR,1 uF	C88, C91, C127, C128, C132, C133,	C/0603/SMT （锡膏）	C_1uF	7
0.1uF	C_105,10V,0603,XSR,1 uF	C92	C0805	C_1uF	1
Cap Pol1	Polarized Capacitor (Radial)	CR1, CR2	TR	Cap Pol1_2	2
10uF		CT1	CC3528	CAPACITOR_POL	1
10uF/16V	10uF/25V	CT11	STC3528	Cap Pol1	1
SBR3A40SA	Default Diode	D1	D_SMC	Diode	1
LED1	Typical RED GaAs LED	DS1, DS2, DS3, DS4, DS5, DS6, DS7	LED-1	LED1	7
TVS:ULCE0505A015FR	RoHS ESD-0603-LF SMT 0402	ESD1, ESD6	ESD0402	DIODE TVS LC_2	2
1uH	磁珠 CBG2012-1UH-0.1 欧-0603-2A	FB_GND1, FB_GND2	1206L	FERRITE BEAD	2
ANTI		J1, J2	ANTI	ANTI	2
HN2064C		J3, J4	TRABSTER	HN2064C	2
CON-RJ45-1X4		J5	RJ45X4	CON-RJ45-1X4	1
Header 3	Header, 3-Pin	J6	HDR1X3	Header 3	1
USB-A-VERTICAL		J7	USB-AF-03	USB_A_1	1
POWER		J8	POWER	POWER	1
KEY_4		K1, K2	KEY	KEY_4	2
Inductor Iron Dot	Magnetic-Core Inductor with Winding Polarity Marking	L1	LL	Inductor Iron Dot	1
2.0nH	Inductor	L2, L3	R0402	Inductor_1	2
2.4nH	Inductor	L4, L5	R0402	Inductor_1	2
1.5nH	Inductor	L6, L7, L11, L12	R0402	Inductor_1	4
3.9nH	Inductor	L8, L9, L13, L14	R0402	Inductor_1	4
1.8nH	Inductor	L10, L15	R0402	Inductor_1	2
4.7uH 5.6A	Inductor	L16	L4R7	Inductor_1	1
PNP	PNP Bipolar Transistor	Q1, Q2, Q3, Q4	SOT-23B_N	PNP	4
0	0	R1, R2, R3, R4, R5, R6, R9, R11, R12, R20, R22, R117	CR1608-0603	Res2	12
1	0	R7, R8	CR1608-0603	Res2	2
10K	0	R10, R97, R98, R99, R102, R104, R110, R111, R112, R113, R114	CR1608-0603	Res2	11
2.37K	0	R13	CR1608-0603	Res2	1
6.19K	0	R15	CR1608-0603	Res2	1
0	0	R16, R17, R18, R19, R21, R23	R0402	Res2	6
1K 1%	0	R24, R25	R0402	Res2	2
120 1%	0	R26	R0402	Res2	1
47 1%	0	R27, R32, R33, R34, R35, R36, R37, R38, R39, R40, R41, R42, R43, R44, R45, R46, R48, R49, R53, R51, R52, R53, R54, R55, R56, R57, R58, R59, R60, R61, R62, R63, R64, R65, R66, R133, R134	R0402	Res2	37
47 1%	0, 47	R28, R29	R0402	Res2	2
47 1%	0	R30, R31	R0402	Res2	2
75	0	R67, R68, R69, R70, R71, R72, R73, R74, R75, R76, R77, R78	CR1608-0603	Res2	12
49.9	0	R79, R80, R81, R82, R83, R84, R85, R86, R87, R88, R89, R90, R91, R92, R93, R94	CR1608-0603	Res2	16
22R	0	R95, R96	CR1608-0603	Res2	2
150	0	R100	CR1608-0603	Res2	1
300	0	R101, R107, R108, R109	CR1608-0603	Res2	4
1K	0	R103, R105, R106, R129	CR1608-0603	Res2	4
100K	0	R115	CR1608-0603	Res2	1
39K	0	R116	CR1608-0603	Res2	1
24K	0	R118	CR1608-0603	Res2	1
9.31K	0	R119	CR1608-0603	Res2	1
0	0	R120, R121, R122, R123, R124, R125, R126, R127, R128	6-0805_L	Res2	9
22 1%	0	R130	R0402	Res2	1
22 1%	0	R131	R0402	Res2	1
SW_SPD		SW1, SW2	TSOP65P210X100-6N	SW_SPD	2
AR9341		U1	AR9341	AR9341	1
H5PS5162GFR-Y5C		U2	DDR2	H5PS5162GFR-Y5C	1
W25Q64FV		U3	SPI_FLASH	W25Q64FV	1
RT8272		U4	RT7282	RT8272	1
12M_22pF_10PPM	Crystal 24MHz 20pF 10ppm	X1	OSC-3225	CRYSTAL-4_3	1